

Algebra II
Operations with Functions

Name _____

Directions: Find a rule for the following operations of functions.

$$f(x) = 2x, g(x) = 4$$

$$(f + g)(x) =$$

$$(f - g)(x) =$$

1)

$$(f \bullet g)(x) =$$

$$\left(\frac{f}{g}\right)(x) =$$

$$f(x) = 6x - 2, g(x) = 1 - 3x$$

$$(f + g)(x) =$$

$$(f - g)(x) =$$

2)

$$(f \bullet g)(x) =$$

$$\left(\frac{f}{g}\right)(x) =$$

$$f(x) = \frac{x}{2}, g(x) = \frac{2}{x}$$

$$(f + g)(x) =$$

$$(f - g)(x) =$$

3)

$$(f \bullet g)(x) =$$

$$\left(\frac{f}{g}\right)(x) =$$

$$f(x) = x^2 - 3x + 2, g(x) = x^2 - 5x + 4$$

$$(f + g)(x) =$$

$$(f - g)(x) =$$

4)

$$(f \bullet g)(x) =$$

$$\left(\frac{f}{g}\right)(x) =$$

$$f(x) = 2x + 3, g(x) = 3$$

$$(f + g)(x) =$$

$$(f - g)(x) =$$

5)

$$(f \bullet g)(x) =$$

$$\left(\frac{f}{g}\right)(x) =$$

$$f(x) = x + 1, g(x) = x^2 - 1$$

$$(f + g)(x) =$$

$$(f - g)(x) =$$

6)

$$(f \bullet g)(x) =$$

$$\left(\frac{f}{g}\right)(x) =$$